R'

 $\mathbf{R}$ 

CH<sub>2</sub>O

 $OH_2O$ 

## Patent Abstracts of Japan

PUBLICATION NUMBER

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**PUBLICATION DATE** 

27-04-93

APPLICATION DATE

17-01-92

APPLICATION NUMBER

: 04027140

APPLICANT: TOAGOSEI CHEM IND CO LTD;

INVENTOR: KATO HIROYUKI;

INT.CL.

C07D493/10 // C08G 65/16

(C07D493/10 , C07D319:00 )

TITLE

**SPIROORTHOCARBONATE** 

COMPOUND

O O Hz

OOH

ABSTRACT:

PURPOSE: To obtain the subject new compound, having a small volume change in curing, a low melting point, good in compatibility with general-purpose resins, excellent in operating efficiency, etc., having a higher refractive index than that of conventional transparent resin materials and capable of providing polymers useful as plastic lenses.

CONSTITUTION: 8,I0,19,20-Tetraoxatrispiro[5.2.2.5.2.2]heneicosane-2,14-diene expressed by formula I (R and R' are bivalent group, expressed by formula II and formed by integrating both R and R'). The compound expressed by formula is obtained by carrying out ester interchange reaction of cyclohexenedimethanol with derivatives of tetramethyl orthocarbonate, 1,4,6,9- tetraoxaspiro[4,4] nonane, etc.

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